

Alabama PACT

12/31/2022 Quarterly Valuation

January 2023

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Alabama PACT Board

Sherman Actuarial Services, LLC (SAS) was retained to report on the funding status and projected cash flows of PACT as of December 31, 2022. Since this is a quarterly valuation, there is less detail provided than in the full valuation as of September 30, 2022. The Summary of Funding section on page 4 describes the current results and compares those results to the September 30, 2022 valuation.

Assumptions and Methods

1. Data and Assets

The valuation was performed using contract data supplied by the Plan Administrator as of December 31, 2022 and financial data reported to you as of December 31, 2022. SAS did not audit the data although they were reviewed for reasonableness and consistency with the audited September 30, 2022 information. The results of the analysis are dependent on the accuracy of the data.

The asset value as of December 31, 2022 was \$243,548,559.

2. Weighted Average Tuition (WAT)

From 2011 through 2022, the expected tuition and qualified fees to be paid were based on the Published Fall 2010 tuition and fees increased as follows.

Past increases effective September 1			
2015	3%	2019	7%
2016	6%	2020	7%
2017	8%	2021	10%
2018	7%	2022	24%

In recent years, the adjusted 2010 rates have significantly exceeded the stated tuition and fees charged by most of the schools. The Board voted a 24% increase for 2022 with the purpose of having all schools receive full tuition and mandatory fees. The PACT pays the lesser of the 2010 adjusted rates and the actual tuition and mandatory fees. The change required a change in methodology for estimating future payments to schools.

Based on the 2021-22 PACT enrollment at in-state 4 year and 2 year schools, the 2022-23 tuition and fee rates, and a 5% load for potential bias to more expensive schools, the expected weighted average annual tuition (WAT) and fee payments was determined. The expected WAT per semester are as follows:

University of Alabama and Auburn University Systems	\$ 7,782
Other Alabama 4-Year Universities and Colleges	\$ 7,782
Out-of-State and Private 4-Year Universities and Colleges	\$ 6,451
Technical and Community Colleges	\$ 2,937

Payment of tuition and qualified fees from the PACT Trust Fund is assumed to occur three times annually: 45% on November 15th, 45% on March 15th, and 10% on August 15th.

3. Tuition Inflation

For the December 31, 2022 valuation, we assumed a tuition inflation assumption of 0% per year.

4. Investment return

The investment return assumption was unchanged from the September 30, 2022 valuation as shown below.

Fiscal Year	September 30, 2022	December 31, 2022
<u>Ending</u>	<u>Valuation</u>	<u>Valuation</u>
2023	2.90%	2.90%
2024	3.10%	3.10%
2025	2.85%	2.85%
2026	2.30%	2.30%
2027	1.80%	1.80%
2028	1.75%	1.75%

5. Payment of Tuition

The December 31, 2022 valuation assumed usage of 128 credit hours at a rate of 12 hours per semester, which is the same as was assumed for the September 30, 2022 valuation.

6. Education Trust Fund Payments

We assumed no future contributions from the Education Trust Fund into the PACT Trust Fund.

7. Cancellations

The assumed cancellation of PACT contracts based on the grade of the beneficiary was unchanged from that assumed as of September 30, 2022 and are shown below.

Age 0 through 9th grade	0% per year
10th grade	1%
11th grade	1%
12th grade	1%

8. School Choice

Contract beneficiaries are assumed to attend school according to the probabilities shown in the following table:

<u>College Type</u>	<u>September 30, 2022</u>	<u>December 31, 2022</u>
Private/Out-of-State	17%	17%
Community College	15%	15%
University of Alabama and Auburn University	53%	53%
Other Alabama Universities	15%	15%

9. Administration Expenses

For the December 31, 2022 valuation, we assumed the administrative expenses will be \$393,750 for the remainder of FYE23, \$525,000 for future fiscal years through 2026. And \$400,000 for 2027. From 2028 to 2031 it is lowered \$100,000 per year.

10. Discount Rate

For the December 31, 2022 valuation, we assumed a discount rate of 3.5% to determine the present value of payments to be received and benefits to be paid.

11. Other

All other assumptions and methods are identical to those used in the September 30, 2022 actuarial valuation.


Purpose of This Report

This report is prepared for the PACT Board. It is expected that this report will be used to monitor the funding status and projected cash flows of the PACT. Use of this report for any other purpose may not be appropriate and may result in mistaken conclusions due to failure to understand applicable assumptions, methodologies, or inapplicability of the report for that purpose. No one may make any representations or warranties based on any statements or conclusions contained in this report without the written consent of SAS.

Qualifications

Daniel Sherman is an Associate of the Society of Actuaries, and a Member of the American Academy of Actuaries. He served as the actuary to the Alabama PACT plan for nineteen years and is the current actuary for Texas. He meets the Qualification Standards of the Academy to render the actuarial opinions contained herein. This report has been prepared in accordance with all applicable Actuarial Standards of Practice, and we are available to answer questions concerning it.

SHERMAN ACTUARIAL SERVICES, LLC



Daniel Sherman, ASA, MAAA
CEO and Consulting Actuary

Summary of Funding

The table below is a summary of the results showing the total costs to maintain the program as of December 31, 2022. Note that although the funded status is 201.2% the cash flow projections show that the fund will need to be monitored in order to maintain sufficient assets.

	September 30, 2022 Annual Valuation	December 31, 2022 Valuation
Assets		
a. Market Value of Assets	238,576,509	243,548,559
b. Present Value of future contract purchaser payments	767,057	673,676
c. Administrative Expenses	(3,304,327)	(3,197,838)
d. Present Value of Education Trust Fund payments	0	0
e. Subtotal (a + b + c + d)	236,039,239	241,024,397
Liabilities		
f. Present Value of tuition and cancellation payments	129,782,258	118,164,662
Funded Status		
g. Reserve (e – f)	106,256,981	122,859,734
h. Funded Ratio	179.8%	201.2%

Projected Cash Flow
December 31, 2022 Valuation
(millions)

Fiscal Year	Benefit Payments	Contract Holder Payments	Education Trust Fund Payments	Admin Expenses	Income	EOY Assets
12/31/2023						\$ 243,500
1/1/23 - 09/30/23	-\$ 20,100	\$400	\$ 0	-\$ 394	\$ 4,994	228,400
10/01/23 - 09/30/24	-33,100	200	0	-525	6,425	201,400
10/01/24 - 09/30/25	-25,100	100	0	-525	5,225	181,100
10/01/25 - 09/30/26	-19,400	0	0	-525	3,925	165,100
10/01/26 - 09/30/27	-13,600	0	0	-525	2,825	153,800
10/01/27 - 09/30/28	-8,400	0	0	-400	2,600	147,600
10/01/28 - 09/30/29	-4,100	0	0	-300	2,500	145,700
10/01/29 - 09/30/30	-2,500	0	0	-200	2,600	145,600
10/01/30 - 09/30/31	-1,100	0	0	-100	2,500	146,900
10/01/31 - 09/30/32	-300	0	0	-100	2,500	149,000
Total	-\$ 127,700	\$ 700	\$ 0	-\$ 3,594		

The sum of the values may not match the total shown due to rounding.

Assumptions

- Settlement
- WAT: 4-Year Alabama schools \$7,782, Out-of-State and Private \$6,451, Technical and Community Colleges \$2,937
- Tuition Inflation at 0%
- Normal Cancellation rates